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* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1 MAR 31 Web Page for STN Seminar Schedule - N. America
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NEWS 3 MAR 31 CAS REGISTRY enhanced with additional experimental
spectra
NEWS 4 MAR 31 CA/Cplus and CASREACT patent number format for U.S.
applications updated
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NEWS 6 MAR 31 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
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NEWS 9 APR 28 EMBASE Controlled Term thesaurus enhanced
NEWS 10 APR 28 IMSRESEARCH reloaded with enhancements
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NEWS 12 MAY 30 DGENE, PCTGEN, and USGENE enhanced with new homology
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NEWS 14 JUN 06 KOREPAT updated with 41,000 documents
NEWS 15 JUN 13 USPATFULL and USPAT2 updated with 11-character
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NEWS 16 JUN 19 CAS REGISTRY includes selected substances from
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NEWS 17 JUN 25 CA/Cplus and USPAT databases updated with IPC
reclassification data
NEWS 18 JUN 30 AEROSPACE enhanced with more than 1 million U.S.
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NEWS 21 JUN 30 STN AnaVist enhanced with database content from EPFULL
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NEWS 23 JUL 28 EPFULL enhanced with additional legal status
information from the epoline Register
NEWS 24 JUL 28 IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 25 JUL 28 STN Viewer performance improved
NEWS 26 AUG 01 INPADOCDB and INFAPAMDB coverage enhanced
NEWS 27 AUG 13 CA/Cplus enhanced with printed Chemical Abstracts
page images from 1967-1998
NEWS 28 AUG 15 CAOLD to be discontinued on December 31, 2008

NEWS 29 AUG 15 CAplus currency for Korean patents enhanced

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AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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=> b reg
COST IN U.S. DOLLARS
SINCE FILE ENTRY SESSION
0.21 0.21
FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 19 AUG 2008 HIGHEST RN 1042061-07-3
DICTIONARY FILE UPDATES: 19 AUG 2008 HIGHEST RN 1042061-07-3

New CAS Information Use Policies; enter HELP USAGETERMS for details

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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<http://www.cas.org/support/stnqen/stndoc/properties.html>

=> s cyclodextrin?/cns and methylimidazo?/cns

32679 CYCLODEXTRIN?/CNS

15763 METHYLIMIDAZO?/CNS

2 CYCLODEXTRIN?/CNS AND METHYL-IMIDAZO?/CNS

=> d.11 scan

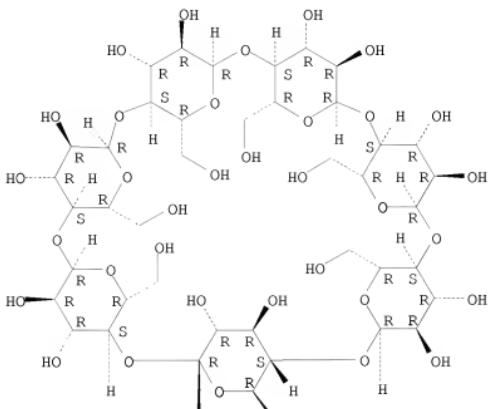
L1 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN β -Cyclodextrin, compd. with 3-dodecyl-1-methyl-1H-imidazolium
hexafluorophosphate(1-)

MF C42 H70 O35 . C16 H31 N2 . F6 P

CM 1

Absolute stereochemistry.

PAGE 1-A

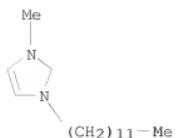


PAGE 2-A



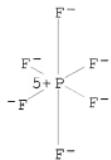
CM 2

CM 3



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 4

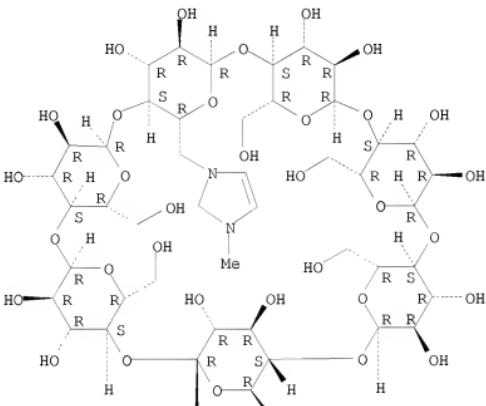


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L1 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN β -Cyclodextrin, 6A-deoxy-6A-(3-methyl-1H-imidazolium-1-yl)-,
chloride (1:1),
MF C46 H75 N2 O34 . Cl

Absolute stereochemistry.

PAGE 1-A





● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> d 11 1-2

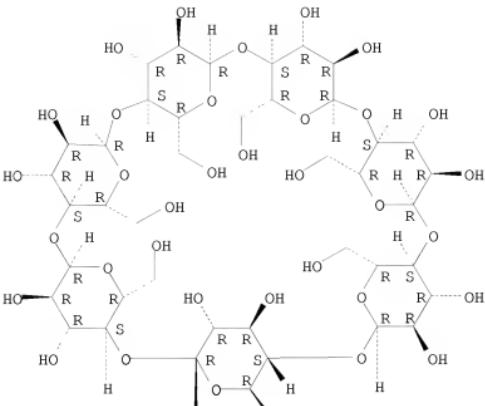
L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 888615-35-8 REGISTRY
 ED Entered STN: 21 Jun 2006
 CN β -Cyclodextrin, compd. with 3-dodecyl-1-methyl-1H-imidazolium hexafluorophosphate(1-) (1:1:1) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN β -Cyclodextrin, compd. with 1-dodecyl-3-methyl-1H-imidazolium hexafluorophosphate(1-) (1:1) (9CI)
 OTHER NAMES:
 CN β -Cyclodextrin-1-dodecyl-3-methylimidazolium hexafluorophosphate complex (1:1)
 FS STEREOSEARCH
 MF C42 H70 O35 . C16 H31 N2 . F6 P
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 7585-39-9
 CMF C42 H70 O35

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

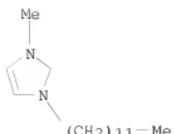


CM 2

CRN 219947-93-0
CMF C16 H31 N2 . F6 P

CM 3

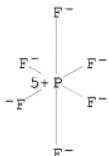
CRN 46928-10-3
CMF C16 H31 N2



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 4

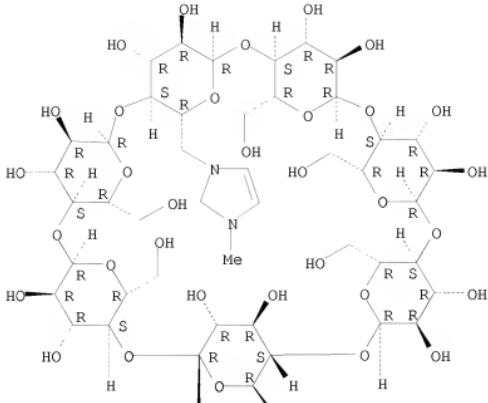
CRN 16919-18-9
CMF F6 P
CCI CCS



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2008 ACS on STN
RN 849599-56-0 REGISTRY
ED Entered STN: 02 May 2005
CN β -Cyclodextrin, 6A-deoxy-6A-(3-methyl-1H-imidazolium-1-yl)-, chloride (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN β -Cyclodextrin, 6A-deoxy-6A-(3-methyl-1H-imidazolium-1-yl)-, chloride (9CI)
OTHER NAMES:
CN Mono-6-(3-methylimidazolium)-6-deoxy- β -cyclodextrin chloride
FS STEREOSEARCH
MF C46 H75 N2 O34 . Cl
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
CRN (849599-45-7)

Absolute stereochemistry.



● Cl-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)

6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

| => b reg | COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------|----------------------|------------------|---------------|
| | FULL ESTIMATED COST | 14.76 | 14.97 |

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DICTIONARY FILE UPDATES: 19 AUG 2008 HIGHEST RN 1042061-07-3

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<http://www.cas.org/support/stngen/stndoc/properties.html>

```
=> s 11
      32679 CYCLODEXTRIN?/CNS
      15763 METHYLIMIDAZO?/CNS
L2      2 CYCLODEXTRIN?/CNS AND METHYLIMIDAZO?/CNS

=> b caplus
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                           ENTRY      SESSION
FULL ESTIMATED COST          10.76       25.73
```

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FILE COVERS 1907 - 20 Aug 2008 VOL 149 ISS 8
FILE LAST UPDATED: 19 Aug 2008 (20080819/ED)

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```
=> s 11
L3      8 L1
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=> s ll and py<=2003

8 L1

24009471 PY<=2003

L4 0 L1 AND PY<=2003

=> d 13 scan

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
IC ICM C08B037-16
ICS C07B053-00; C07B063-02; B01D015-08
CC 44-6 (Industrial Carbohydrates)
Section cross-reference(s): 21
TI Cationic oligomer of a saccharide for resolving enantiomers and asymmetric synthesis
ST cyclodextrin cationic oligomer enantiomer resoln asym synthesis; chiral agent cationic cyclodextrin oligomer enantiomer resoln chromatog
IT Polysaccharides, preparation
RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP (Preparation); USES (Uses)
 (cationic oligomers; manufacture of cationic oligomer of saccharide for resolving enantiomers and asym. synthesis)
IT Asymmetric synthesis and induction
Chromatography
Diels-Alder reaction
Enantiomers
 (manufacture of cationic oligomer of saccharide for resolving enantiomers and asym. synthesis)
IT Inclusion compounds
RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP (Preparation); USES (Uses)
 (manufacture of cationic oligomer of saccharide for resolving enantiomers and asym. synthesis)
IT 29390-67-8P, Mono-6-amino-6-deoxy- β -cyclodextrin 849599-46-8P
849599-49-1P 849599-52-6P 849599-56-0P 849599-69-5P
849599-70-8P 849599-72-0P 849599-73-1P 849599-76-4P 854929-85-4P
854929-87-6P 854929-89-8P 854929-90-1P 854929-91-2P
RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP (Preparation); USES (Uses)
 (manufacture of cationic oligomer of saccharide for resolving enantiomers and asym. synthesis)
IT 74-88-4, Methyl iodide, reactions 107-10-8, n-Propylamine, reactions 107-11-9, Allylamine 109-73-9, n-Butylamine, reactions 110-58-7, n-Pentylamine 110-86-1, Pyridine, reactions 459-57-4, 4-Fluorobenzaldehyde 616-47-7, 1-Methylimidazole 4316-42-1, 1-Butylimidazole 7393-43-3, Tetraallyltin 21252-69-7, 1-Octylimidazole 67217-55-4, 6-O-Tosyl- β -cyclodextrin 67217-55-4 128262-67-9
854929-92-3
RL: RCT (Reactant); RACT (Reactant or reagent)
 (manufacture of cationic oligomer of saccharide for resolving enantiomers and asym. synthesis)
IT 854929-94-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (manufacture of cationic oligomer of saccharide for resolving enantiomers and asym. synthesis)
IT 7646-69-7, Sodium hydride
RL: RGT (Reagent); RACT (Reactant or reagent)
 (manufacture of cationic oligomer of saccharide for resolving enantiomers and asym. synthesis)

IT 136185-86-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(manufacture of cationic oligomer of saccharide for resolving enantiomers
and asym. synthesis)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

CC 80-4 (Organic Analytical Chemistry)

TI Synthesis and application of single-isomer 6-mono(alkylimidazolium)- β -cyclodextrins as chiral selectors in chiral capillary electrophoresis
ST alkylimidazoliumcyclodextrin chiral selector capillary electrophoresis
dansyl amino acid enantiosepn.

IT Amino acids, analysis

RL: ANT (Analyte); ANST (Analytical study)

(aromatic, dansyl; synthesis and application of single-isomer
mono(alkylimidazolium)- β -cyclodextrins as chiral selectors in
capillary electrophoresis for enantiosepn. of dansyl amino acids)

IT Resolution (separation)

(electrophoretic; synthesis and application of single-isomer
mono(alkylimidazolium)- β -cyclodextrins as chiral selectors in
capillary electrophoresis for enantiosepn. of dansyl amino acids)

IT Capillary electrophoresis

(synthesis and application of single-isomer mono(alkylimidazolium)- β -cyclodextrins as chiral selectors in capillary electrophoresis
for enantiosepn. of dansyl amino acids)

IT 1098-50-6, Dansyl-L-valine 1100-22-7, Dansyl-L-leucine 1101-68-4,
Dansyl-L-glutamic acid 1104-36-5, Dansyl-L-phenylalanine 17039-57-5,
Dansyl-DL-tryptophan 17039-58-6, Dansyl-L-methionine 19461-29-1,
Dansyl-L-tryptophan 35021-12-6, Dansyl-L-serine 35021-15-9,
Dansyl-L-norvaline 35021-16-0, Dansyl-L-threonine 35021-19-3,
Dansyl-L-norleucine 42808-05-9, Dansyl-DL-valine 42808-06-0,
Dansyl-DL-phenylalanine 48196-47-0, Dansyl-DL-serine 48208-47-5,
Dansyl-DL-methionine 56176-31-9, Dansyl-D-phenylalanine 58260-76-7,
Dansyl-L- α -aminobutyric acid 61417-01-4, Dansyl-DL-norleucine
65452-14-4, Dansyl-DL-leucine 68973-58-0, Dansyl-DL-glutamic acid
70136-17-3, Dansyl-D-tryptophan 77426-54-1, Dansyl-D-valine
77426-56-3, Dansyl-D-norleucine 77426-57-4, Dansyl-DL-norvaline
77426-58-5, Dansyl-D- α -aminobutyric acid 77481-08-4,
Dansyl-D-threonine 77481-09-5, Dansyl-D-serine 77481-10-8,
Dansyl-D-methionine 77481-11-9 77481-12-0, Dansyl-DL- α -
aminobutyric acid 95465-24-0, Dansyl-D-glutamic acid 99388-22-4,
Dansyl-D-leucine 162489-44-3 162489-45-4 171202-09-8

RL: ANT (Analyte); ANST (Analytical study)

(analyte; synthesis and application of single-isomer
mono(alkylimidazolium)- β -cyclodextrins as chiral selectors in
capillary electrophoresis for enantiosepn. of dansyl amino acids)

IT 616-47-7, 1-Methylimidazole 1739-84-0, 1,2-Dimethylimidazole
4316-42-1, 1-Butylimidazole 33529-02-1, 1-Decylimidazole 67217-55-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(in synthesis of single-isomer mono(alkylimidazolium)- β -
cyclodextrins as chiral selectors in capillary electrophoresis)

IT 77426-55-2, Dansyl-D-norvaline

RL: ANT (Analyte); ANST (Analytical study)

(synthesis and application of single-isomer mono(alkylimidazolium)- β -
cyclodextrins as chiral selectors in capillary electrophoresis
for enantiosepn. of dansyl amino acids)

IT 849599-46-8P 849599-49-1P 849599-55-9P 849599-56-0P

849599-58-2P 849599-60-6P 873221-12-6P 873221-17-1P

RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);
PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study);
PREP (Preparation); USES (Uses)
(synthesis and application of single-isomer mono(alkylimidazolium)-
 β -cyclodextrins as chiral selectors in capillary electrophoresis
for enantiosepn. of dansyl amino acids)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 46-3 (Surface Active Agents and Detergents)
TI Inclusion Complexes of β -Cyclodextrin with Ionic Liquid Surfactants
ST cyclodextrin long alkyl methylimidazolium hexafluorophosphate inclusion
complex surface tension
IT Ionic liquids
Surface tension
Surfactants
(inclusion complexes of β -cyclodextrin with ionic liquid
surfactants)
IT Inclusion compounds
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation,
nonpreparative)
(inclusion complexes of β -cyclodextrin with ionic liquid
surfactants)
IT 888615-35-8, β -Cyclodextrin-1-dodecyl-3-methylimidazolium
hexafluorophosphate complex (1:1) 888615-36-9 888615-37-0
888615-38-1 888615-39-2
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation,
nonpreparative)
(inclusion complexes of β -cyclodextrin with ionic liquid
surfactants)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 33-4 (Carbohydrates)
TI Complex formation of ionic liquid surfactant and β -cyclodextrin
ST dodecylmethylimidazolium fluorophosphate ionic liq surfactant cyclodextrin
inclusion complex formation
IT Inclusion reaction
Ionic liquids
(complex formation of ionic liquid surfactant and β -cyclodextrin)
IT Inclusion compounds
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation,
nonpreparative)
(complex formation of ionic liquid surfactant and β -cyclodextrin)
IT 888615-35-8 888615-38-1
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation,
nonpreparative)
(complex formation of ionic liquid surfactant and β -cyclodextrin)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 80-4 (Organic Analytical Chemistry)
TI Effect of alkylimidazolium substituents on enantioseparation ability of
single-isomer alkylimidazolium- β -cyclodextrin derivatives in
capillary electrophoresis
ST alkylimidazolium cyclodextrin chiral selector dansyl amino acid

enantiosepn electrophoresis; substituent effect alkylimidazolium cyclodextrin chiral selector enantiosepn electrophoresis

IT Amino acids, analysis
RL: ANT (Analyte); ANST (Analytical study)
(aromatic, dansyl, analytes; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- β -cyclodextrin derivs. in capillary electrophoresis)

IT Capillary electrophoresis
(effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- β -cyclodextrin derivs. in capillary electrophoresis)

IT Molecular structure-property relationship
(electrophoresis, of mono(alkylimidazolium)- β -cyclodextrins; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- β -cyclodextrin derivs. in capillary electrophoresis)

IT Resolution (separation)
(electrophoretic; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- β -cyclodextrin derivs. in capillary electrophoresis)

IT 1098-50-6, Dansyl-L-valine 1101-68-4, Dansyl-L-glutamic acid 1104-36-5, Dansyl-L-phenylalanine 35021-12-6, Dansyl-L-serine 35021-15-9, Dansyl-L-norvaline 35021-16-0, Dansyl-L-threonine 35021-19-3, Dansyl-L-norleucine 42808-05-9, Dansyl-DL-valine 42808-06-0, Dansyl-DL-phenylalanine 48196-47-0, Dansyl-DL-serine 56176-31-9, Dansyl-D-phenylalanine 58260-76-7, Dansyl-L- α -aminobutyric acid 61417-01-4, Dansyl-DL-norleucine 68973-58-0, Dansyl-DL-glutamic acid 77426-54-1, Dansyl-D-valine 77426-55-2, Dansyl-D-norvaline 77426-56-3, Dansyl-D-norleucine 77426-57-4, Dansyl-DL-norvaline 77426-58-5, Dansyl-D- α -aminobutyric acid 77481-08-4, Dansyl-D-threonine 77481-09-5, Dansyl-D-serine 77481-11-9 77481-12-0, Dansyl-DL- α -aminobutyric acid 95465-24-0, Dansyl-Dglutamic acid 162489-44-3, Dansyl-L- α -aminocaprylic acid 162489-45-4, Dansyl-D- α -aminocaprylic acid 171202-09-8, Dansyl-DL- α -aminocaprylic acid
RL: ANT (Analyte); ANST (Analytical study)
(analyte; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- β -cyclodextrin derivs. in capillary electrophoresis)

IT 849599-56-0
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); ANST (Analytical study); USES (Uses)
(chiral selector; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- β -cyclodextrin derivs. in capillary electrophoresis)

IT 930276-66-7
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); PRP (Properties); ANST (Analytical study); USES (Uses)
(chiral selector; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- β -cyclodextrin derivs. in capillary electrophoresis)

IT 849599-58-2 930276-68-9
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); ANST (Analytical study); USES (Uses)
(effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- β -cyclodextrin derivs. in capillary electrophoresis)

IT 930276-67-8
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);

PRP (Properties); ANST (Analytical study); USES (Uses)
(effect of alkylimidazolium substituents on enantiosepn. ability of
single-isomer alkylimidazolium- β -cyclodextrin derivs. in capillary
electrophoresis)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

CC 34-2 (Amino Acids, Peptides, and Proteins)

Section cross-reference(s): 80

TI Chiral separation of dansyl amino acids in capillary electrophoresis using mono-(3-methyl-imidazolium)- β -cyclodextrin chloride as selector

ST dansylamino acid enantiosepn capillary electrophoresis
methylimidazoliumcyclodextrin chloride chiral selector

IT Amino acids, preparation

RL: ANT (Analyte); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); ANST (Analytical study); PREP (Preparation); PROC (Process)

(aromatic, dansyl; enantiosepn. of dansylamino acids via capillary electrophoresis using mono(methylimidazolium)cyclodextrin chloride as chiral selector)

IT Capillary electrophoresis

Resolution (separation)

(enantiosepn. of dansylamino acids via capillary electrophoresis using mono(methylimidazolium)cyclodextrin chloride as chiral selector)

IT 17039-57-5, Dansyl-DL-tryptophan 42808-04-8, Dansyl-DL-alanine
42808-05-9, Dansyl-DL-valine 42808-06-0, Dansyl-DL-phenylalanine
42808-07-1, Dansyl-DL-aspartic acid 48196-47-0, Dansyl-DL-serine
48208-47-5, Dansyl-DL-methionine 61417-01-4, Dansyl-DL-norleucine
65452-14-4, Dansyl-DL-leucine 68973-58-0, Dansyl-DL-glutamic acid
77426-57-4, Dansyl-DL-norvaline 77481-11-9 77481-12-0 171202-09-8
RL: ANT (Analyte); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process)

(enantiosepn. of dansylamino acids via capillary electrophoresis using mono(methylimidazolium)cyclodextrin chloride as chiral selector)

IT 1098-50-6P, Dansyl-L-valine 1100-22-7P, Dansyl-L-leucine 1100-24-9P,
Dansyl-L-aspartic acid 1101-68-4P, Dansyl-L-glutamic acid 1104-36-5P,
Dansyl-L-phenylalanine 17039-58-6P, Dansyl-L-methionine 19461-29-1P,
Dansyl-L-tryptophan 35021-10-4P, Dansyl-L-alanine 35021-12-6P,
Dansyl-L-serine 35021-15-9P, Dansyl-L-norvaline 35021-16-0P,
Dansyl-L-threonine 35021-19-3P, Dansyl-L-norleucine 56176-31-9P,
Dansyl-D-phenylalanine 56176-32-0P, Dansyl-D-alanine 58260-76-7P
70136-17-3P, Dansyl-D-tryptophan 77426-54-1P, Dansyl-D-valine
77426-55-2P, Dansyl-D-norvaline 77426-56-3P, Dansyl-D-norleucine
77426-58-5P 77481-08-4P, Dansyl-D-threonine 77481-09-5P,
Dansyl-D-serine 77481-10-8P, Dansyl-D-methionine 95465-24-0P,
Dansyl-D-glutamic acid 95465-25-1P, Dansyl-D-aspartic acid
99388-22-4P, Dansyl-D-leucine 162489-44-3P 162489-45-4P
RL: ANT (Analyte); PUR (Purification or recovery); ANST (Analytical study); PREP (Preparation)

(enantiosepn. of dansylamino acids via capillary electrophoresis using mono(methylimidazolium)cyclodextrin chloride as chiral selector)

IT 849599-56-0

RL: ARU (Analytical role, unclassified); ANST (Analytical study)

(enantiosepn. of dansylamino acids via capillary electrophoresis using mono(methylimidazolium)cyclodextrin chloride as chiral selector)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 80-4 (Organic Analytical Chemistry)
TI Synthesis and application of mono-6-(3-methylimidazolium)-6-deoxyperphenylcarbamoyl- β -cyclodextrin chloride as chiral stationary phases for high-performance liquid chromatography and supercritical fluid chromatography
ST methylimidazolium deoxyperphenylcarbamoyl cyclodextrin chiral phase HPLC
arom alc enantiosep; supercrit fluid chromatog methylimidazolium
deoxyperphenylcarbamoyl cyclodextrin chloride chiral phase
IT Alcohols, analysis
RL: ANT (Analyte); ANST (Analytical study)
(aralkyl; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- β -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT HPLC stationary phases
(chiral; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- β -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT Resolution (separation)
(chromatog.; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- β -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT Supercritical fluid chromatography
(stationary phases; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- β -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT Chromatographic stationary phases
(supercrit. fluid; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- β -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT 98-85-1, (\pm)-1-Phenylethanol 403-41-8, (\pm)-1-(4-Fluorophenyl)ethanol 1445-91-6, (\pm)-1-Phenylethanol 1517-69-7, (+)-1-Phenylethanol 3391-10-4, (\pm)-1-(4-Chlorophenyl)ethanol 5391-88-8, (\pm)-1-(4-Bromophenyl)ethanol 53207-29-7, (\pm)-1-(4-Iodophenyl)ethanol 60301-59-9 75968-40-0, (+)-1-(4-Chlorophenyl)ethanol 76155-78-7, (+)-1-(4-Bromophenyl)ethanol 99528-42-4, (-)-1-(4-Chlorophenyl)ethanol 100760-04-1, (-)-1-(4-Bromophenyl)ethanol 101219-68-5, (+)-1-(4-Fluorophenyl)ethanol 101219-73-2, (-)-1-(4-Fluorophenyl)ethanol 104013-25-4, (-)-1-(4-Iodophenyl)ethanol 113842-31-2 136185-86-9, (\pm)-1-(4-Fluorophenyl)-3-buten-1-ol 144486-12-4 186587-45-1 189107-38-8 215320-36-8 220089-24-7, (+)-1-(4-Iodophenyl)ethanol 221898-37-9 238091-03-7 255884-18-5 255884-19-6, (+)-1-(4-Fluorophenyl)-3-buten-1-ol 335022-72-5 879005-60-4, (-)-1-(4-Fluorophenyl)-3-buten-1-ol 1014975-81-5 1014975-82-6
RL: ANT (Analyte); ANST (Analytical study)
(synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- β -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT 1015048-23-3P
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- β -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT 103-71-9, Phenyl isocyanate, reactions 849599-56-0,

Mono-6-(3-methylimidazolium)-6-deoxy- β -cyclodextrin chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- β -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 80-4 (Organic Analytical Chemistry)
TI Synthesis of ammonium substituted β -cyclodextrins for enantioseparation of anionic analytes
ST ammonium substituted cyclodextrin prepn anionic analyte enantiosep
IT Carboxylic acids, analysis
RL: ANT (Analyte); ANST (Analytical study)
(analytes; synthesis of ammonium substituted β -cyclodextrins for enantiosep. of anionic analytes)
IT Amino acids, analysis
RL: ANT (Analyte); ANST (Analytical study)
(aromatic, dansyl, analytes; synthesis of ammonium substituted β -cyclodextrins for enantiosep. of anionic analytes)
IT Resolution (separation)
(electrophoretic; synthesis of ammonium substituted β -cyclodextrins for enantiosep. of anionic analytes by capillary electrophoresis)
IT Capillary electrophoresis
(synthesis of ammonium substituted β -cyclodextrins for enantiosep. of anionic analytes by capillary electrophoresis)
IT 772-14-5, (-)-3-Phenylbutyric acid 772-15-6, (+)-3-Phenylbutyric acid 4593-90-2, (\pm)-3-Phenylbutyric acid 35021-12-6, L-Dansyl serine 35021-15-9, D-Dansyl norvaline 48196-47-0, DL-Dansyl serine 77426-55-2, D-Dansyl norvaline 77426-57-4, DL-Dansyl norvaline 77481-09-5, D-Dansyl serine
RL: ANT (Analyte); ANST (Analytical study)
(analyte; synthesis of ammonium substituted β -cyclodextrins for enantiosep. of anionic analytes)
IT 74-88-4, Methyl iodide, reactions 107-10-8, n-Propylamine, reactions 107-11-9, Allylamine 109-73-9, n-Butylamine, reactions 110-58-7, n-Pentylamine 110-86-1, Pyridine, reactions 616-47-7, 1-Methylimidazole 1739-84-0, 1,2-Dimethylimidazole 4316-42-1, 1-Butylimidazole 21252-69-7, 1-Octylimidazole 67217-55-4 84346-54-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of ammonium substituted β -cyclodextrins for enantiosep. of anionic analytes)
IT 849599-49-1P 849599-52-6P 849599-55-9P 849599-56-0P
849599-58-2P 849599-60-6P 849599-63-9P 849599-66-2P 849599-68-4P
849599-69-5P 849599-70-8P 849599-72-0P 849599-73-1P 849599-76-4P
849599-78-6P
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(synthesis of ammonium substituted β -cyclodextrins for enantiosep. of anionic analytes)
IT 849599-46-8P
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(synthesis of ammonium substituted β -cyclodextrins for enantiosep. of anionic analytes by capillary electrophoresis)

ALL ANSWERS HAVE BEEN SCANNED

=> b reg
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| | SINCE FILE ENTRY | TOTAL SESSION |
|---------------------|------------------|---------------|
| FULL ESTIMATED COST | 2.60 | 28.33 |

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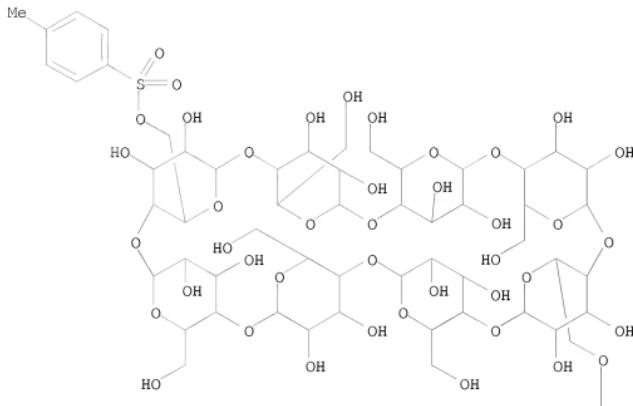
<http://www.cas.org/support/stngen/stndoc/properties.html>

=> s cyclodextrin?/cns and tosyl?/cns
32679 CYCLODEXTRIN?/CNS
3688 TOSYL?/CNS
L5 18 CYCLODEXTRIN?/CNS AND TOSYL?/CNS

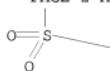
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L5 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN γ -Cyclodextrin, 6A,6E-bis(4-methylbenzenesulfonate) (9CI)
MF C62 H92 O44 S2

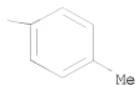
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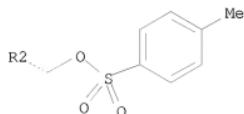
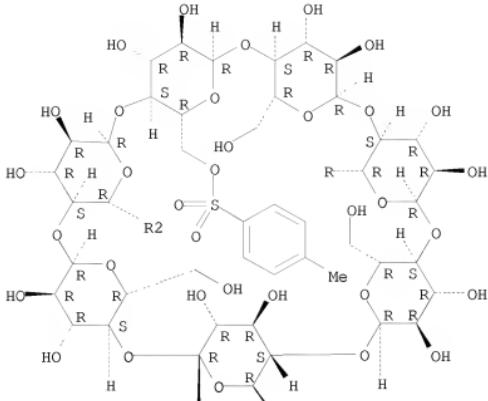
PAGE 2-B



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN β-Cyclodextrin, 6A,6B-bis(4-methylbenzenesulfonate)
MF C56 H82 O39 S2
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

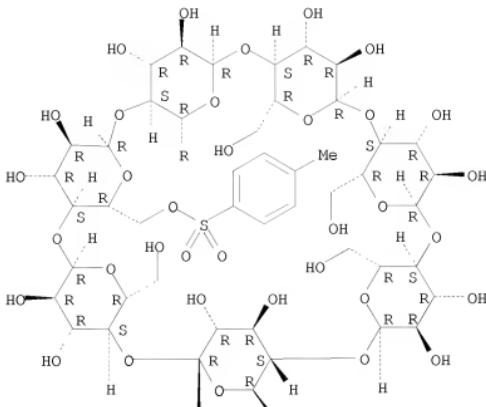
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN β -Cyclodextrin, 6A-[(2-carboxyphenyl)amino]-6A-deoxy-,
6B-(4-methylbenzenesulfonate), monosodium salt (9CI)
 MF C56 H81 N O38 S Na

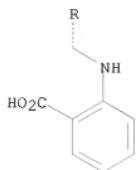
CI COM

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



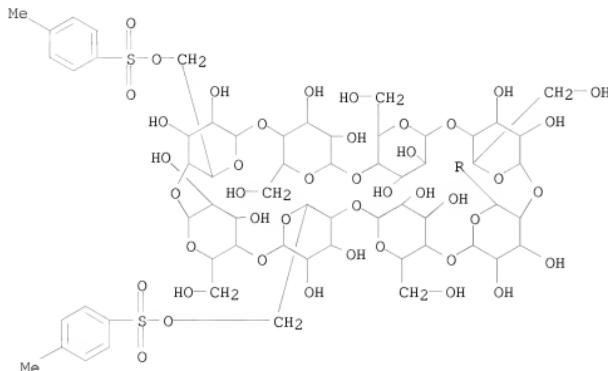
● Na

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN *gamma-Cyclodextrin, 6A,6C-bis(4-methylbenzenesulfonate)* (9CI)

MF C62 H92 O44 S2

PAGE 1-A



PAGE 2-A



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> d 15 1-

YOU HAVE REQUESTED DATA FROM 18 ANSWERS - CONTINUE? Y/(N):y

L5 ANSWER 1 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 680183-93-1 REGISTRY

ED Entered STN: 06 May 2004

CN β -Cyclodextrin, 6A-[$(2$ -carboxyphenyl)amino]-6A-deoxy-
6D-(4-methylbenzenesulfonate), monosodium salt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 6A-Anthraniilate-6D-O-p-tosyl- β -cyclodextrin

FS STEREOSEARCH

MF C56 H81 N O38 S . Na

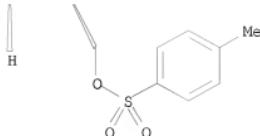
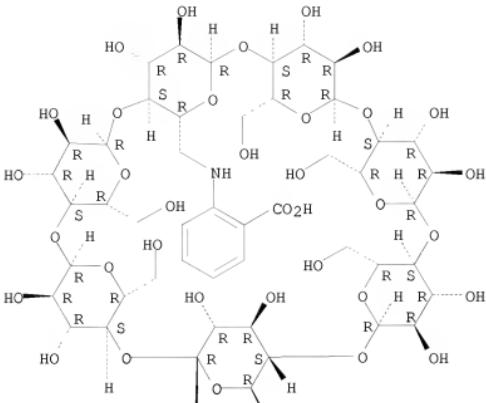
CI COM

SR CA

LC STN Files: CA, CAPLUS, CASREACT

CRN (679816-40-1)

Absolute stereochemistry.



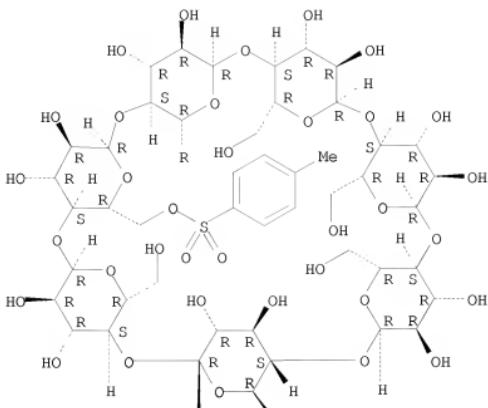
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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

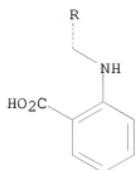
L5 ANSWER 2 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 680183-92-0 REGISTRY
 ED Entered STN: 06 May 2004
 CN β -Cyclodextrin, 6A-[$(2$ -carboxyphenyl)amino]-6A-deoxy-
 β B-(4-methylbenzenesulfonate), monosodium salt (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN β -Antranilate-6B-O-p-tosyl- β -cyclodextrin
 FS STEREOSEARCH
 MF C56 H81 N O38 S . Na
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT
 CRN (679816-05-8)

Absolute stereochemistry.

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PAGE 2-A



● Na

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 3 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 679816-23-0 REGISTRY
ED Entered STN: 05 May 2004

CN β -Cyclodextrin, 6A-[2-carboxyphenyl]amino]-6A-deoxy-
6C-(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 6A-Antranilate-6C-O-p-tosyl- β -cyclodextrin

FS STEREOSEARCH

MF C56 H81 N O38 S

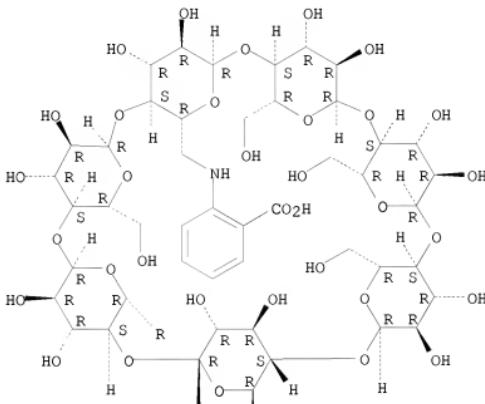
CI COM

SR CA

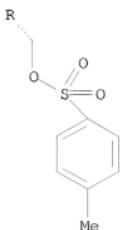
LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 4 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 146469-71-8 REGISTRY

ED Entered STN: 16 Mar 1993

CN α -Cyclodextrin, 2A,2B,2C,2D,2E,2F-hexakis(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29-Dodecaoxaheptacyclo[26.2.2.23,6.28,11.213,16.218,21.223,26]dotetracontane, α -cyclodextrin deriv.

OTHER NAMES:

CN Hexakis(2-O-tosyl)- α -cyclodextrin

FS STEREOSEARCH

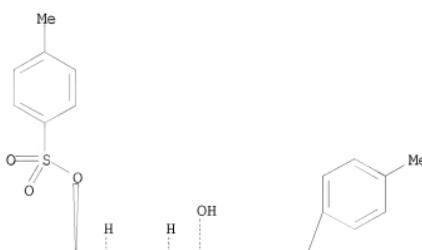
MF C78 H96 O42 S6

SR CA

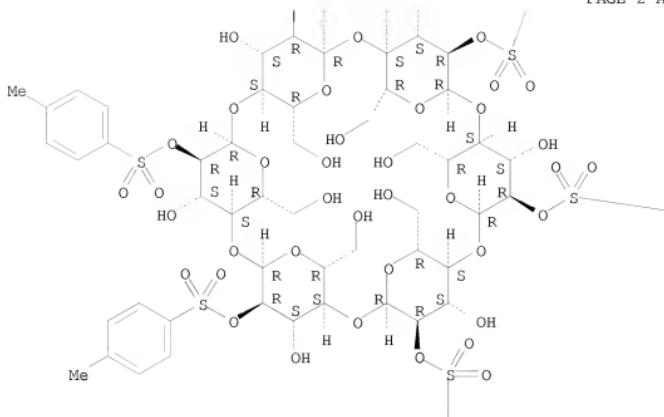
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



PAGE 2-B



PAGE 3-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 5 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 122566-69-2 REGISTRY

ED Entered STN: 08 Sep 1989

CN β -Cyclodextrin, 2A,2B,2C,2D,2E,2F,2G-heptakis(4-methylbenzenesulfonate) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23.6.28.11.213,16.218,21.223,26.228,31]nonatetracontane, β -cyclodextrin deriv.

OTHER NAMES:

CN Heptakis(2-O-tosyl)- β -cyclodextrin

FS STEREOSEARCH

DR 137147-03-6

MF C91 H112 O49 S7

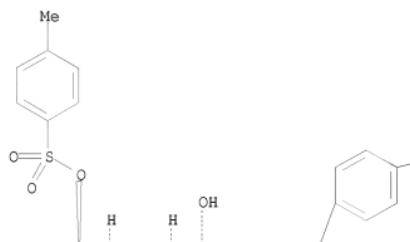
CI COM

SR CA

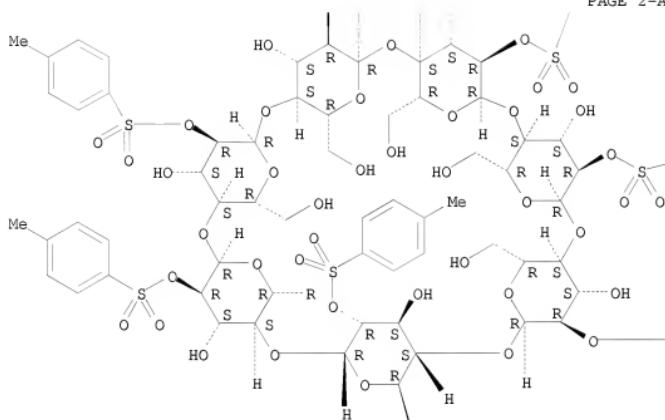
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.

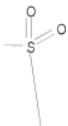
PAGE 1-A



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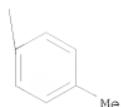
PAGE 2-B



PAGE 3-A



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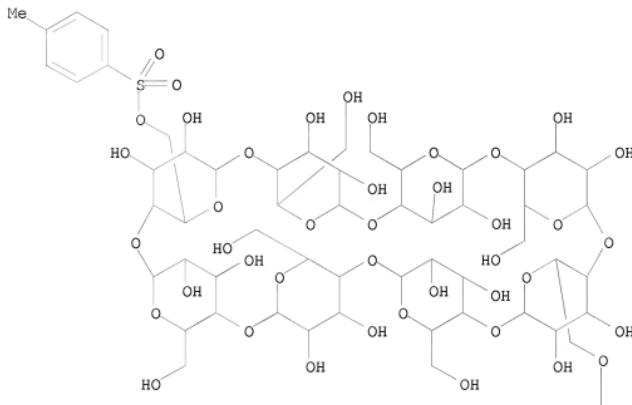
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7 REFERENCES IN FILE CA (1907 TO DATE)

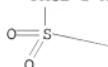
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

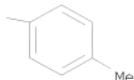
RN 104901-63-5 REGISTRY
ED Entered STN: 25 Oct 1986
CN γ -Cyclodextrin, 6A,6E-bis(4-methylbenzenesulfonate) (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-
Hexadecaoxanonacyclo[36.2.2.23,6,28,11.213,16.218,21.223,26.228,31.233,36]
hexapentacotane, γ -cyclodextrin deriv.
OTHER NAMES:
CN 6A,6E-Di(p-tosyl)- γ -cyclodextrin
FS STEREOSEARCH
MF C62 H92 O44 S2
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

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12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 7 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 104901-62-4 REGISTRY

ED Entered STN: 25 Oct 1986

CN γ -Cyclodextrin, 6A,6B-bis(4-methylbenzenesulfonate) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-Hexadecaoxanonacyclo[36.2.2.23,6.28,11.213,16.218,21.223,26.228,31.233,36]hexapentacontane, γ -cyclodextrin deriv.

OTHER NAMES:

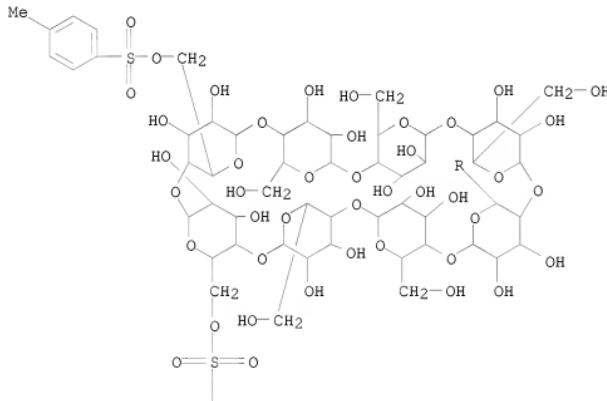
CN 6A,6B-Di(p-tosyl)- γ -cyclodextrin

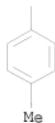
FS STEREOSEARCH

MF C62 H92 O44 S2

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

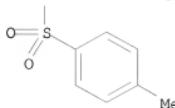
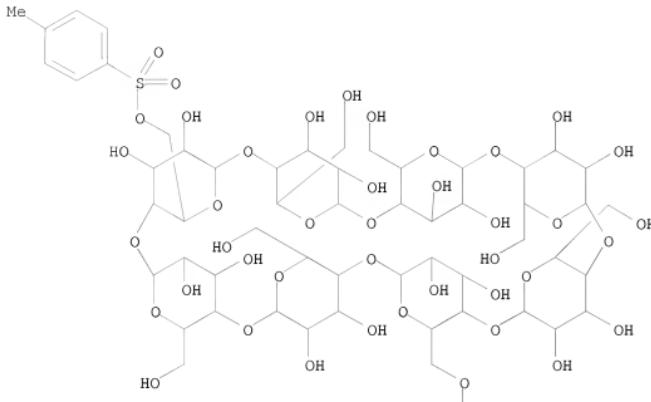




PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)
 13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 8 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 104867-16-5 REGISTRY
 ED Entered STN: 25 Oct 1986
 CN γ -Cyclodextrin, 6A,6D-bis(4-methylbenzenesulfonate) (9CI)
 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-
Hexadecaoxanonacyclo[36.2.2.23,6.28,11.213,16.218,21.223,26.228,31.233,36]
hexapentacontane, γ -cyclodextrin deriv.
 OTHER NAMES:
 CN 6A,6D-Di(p-tosyl)- γ -cyclodextrin
 FS STEREOSEARCH
 MF C62 H92 O44 S2
 CI COM
 SR CA
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
 (*File contains numerically searchable property data)



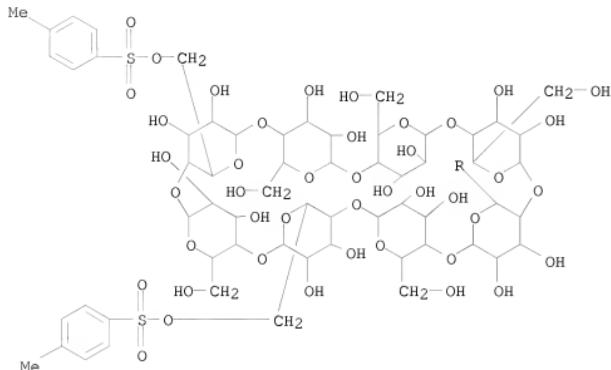
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 9 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 104867-15-4 REGISTRY
 ED Entered STN: 25 Oct 1986
 CN γ -Cyclodextrin, 6*A*, 6*C*-bis(4-methylbenzenesulfonate) (9CI)
 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2, 4, 7, 9, 12, 14, 17, 19, 22, 24, 27, 29, 32, 34, 37, 39-
Hexadecaoxanonacyclo[36.2.2.23, 6.28, 11.213, 16.218, 21.223, 26.228, 31.233, 36]
hexapentacontane, γ -cyclodextrin deriv.
 OTHER NAMES:
 CN 6*A*, 6*C*-Di(p-tosyl)- γ -cyclodextrin
 FS STEREOSEARCH
 MF C62 H92 O44 S2
 SR CA
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT

(*File contains numerically searchable property data)

PAGE 1-A



PAGE 2-A



10 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 10 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 97227-33-3 REGISTRY

ED Entered STN: 21 Jul 1985

CN γ -Cyclodextrin, 6A-(4-methylbenzenesulfonate) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-
Hexadecaoxanonacyclo[36.2.2.23,6.28,11.213,16.218,21.223,26.228,31.233,36]
hexapentacontane, γ -cyclodextrin deriv.

OTHER NAMES:

CN γ -Cyclodextrin 6-monotosylate

CN 6-O-Tosyl- γ -cyclodextrin

CN Mono-6-(p-tolylsulfonyl)- γ -cyclodextrin

CN Mono-6-O-tosyl- γ -cyclodextrin

FS STEREOSEARCH

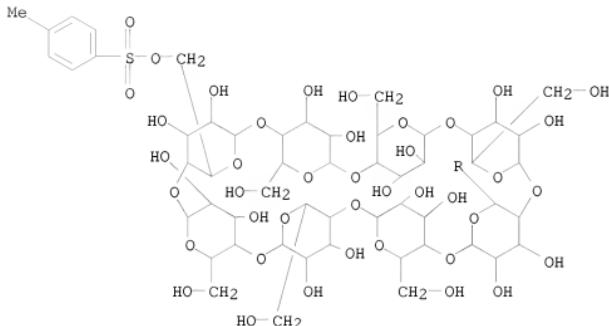
DR 500313-14-4

MF C55 H86 O42 S

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER,
USPAFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

23 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 23 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 11 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 95509-72-1 REGISTRY

ED Entered STN: 23 Mar 1985

CN *β-Cyclodextrin, 6A,6C-bis(4-methylbenzenesulfonate)* (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN *2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.2.2,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane, β-cyclodextrin deriv.*

OTHER NAMES:

CN *6A,6C-Di-(p-tosyl)-β-cyclodextrin*CN *6A,6C-Di-O-(p-tosyl)-β-cyclodextrin*

FS STEREOSEARCH

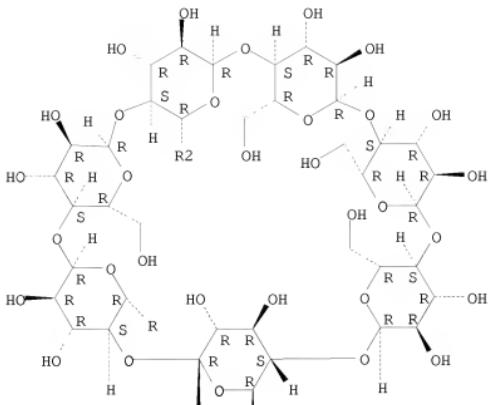
DR 98853-89-5

MF C56 H82 O39 S2

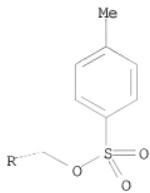
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
 (*File contains numerically searchable property data)

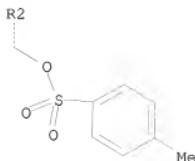
Absolute stereochemistry.

PAGE 1-A



PAGE 2-A





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18 REFERENCES IN FILE CA (1907 TO DATE)
18 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 12 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 95475-65-3 REGISTRY

ED Entered STN: 23 Mar 1985

CN β -Cyclodextrin, 6A,6D-bis(4-methylbenzenesulfonate) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23
,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane, β -cyclodextrin deriv.

OTHER NAMES:

CN 6A,6D-Di(p-tosyl)- β -cyclodextrin

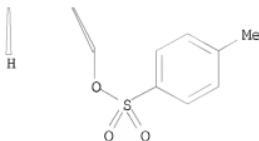
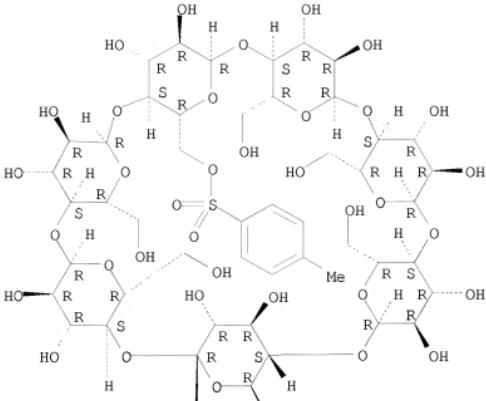
CN 6A,6D-Di-O-(p-tosyl)- β -cyclodextrin

FS STEREOSEARCH

MF C56 H82 O39 S2

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

19 REFERENCES IN FILE CA (1907 TO DATE)
19 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 13 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 95475-64-2 REGISTRY

ED Entered STN: 23 Mar 1985

CN β -Cyclodextrin, 6A,6B-bis(4-methylbenzenesulfonate) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane, β -cyclodextrin deriv.

OTHER NAMES:

CN 6A,6B-Di(p-tosyl)- β -cyclodextrin

CN 6A,6B-Di-O-(p-tosyl)- β -cyclodextrin

FS STEREOSEARCH

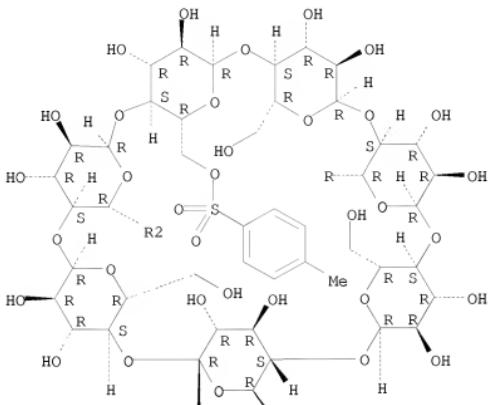
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CI COM

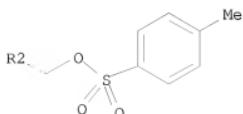
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

Absolute stereochemistry.

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1907 TO DATE)

17 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 14 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 84216-71-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN β -Cyclodextrin, 2A-(4-methylbenzenesulfonate) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2, 4, 7, 9, 12, 14, 17, 19, 22, 24, 27, 29, 32, 34-Tetradecaoxaoctacyclo[31.2.2.23
6.28.11.213, 16.218, 21.223, 26.228, 31]nonatetracontane, β -cyclodextrin
deriv.

OTHER NAMES:

CN Mono(2-O-tosyl)- β -cyclodextrin

FS STEREOSEARCH

MF C49 H76 O37 S

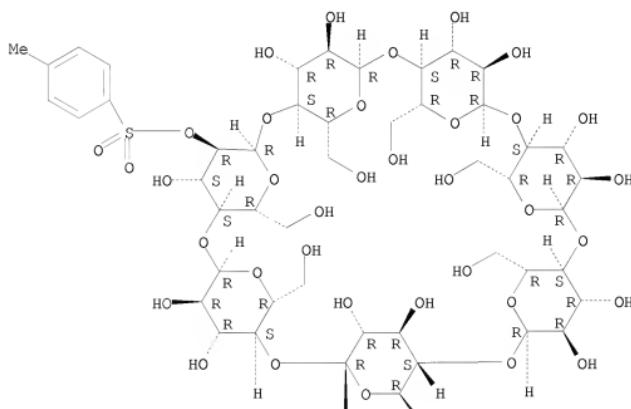
CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER,
USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 2-A



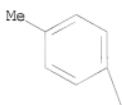
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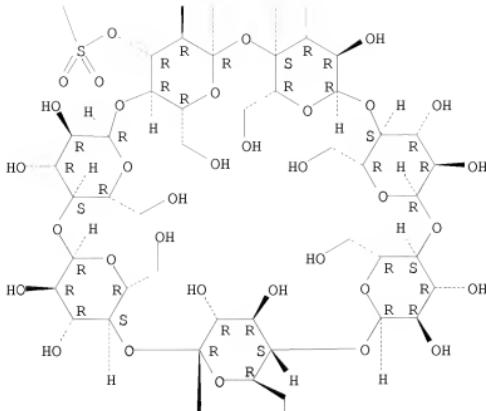
62 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
62 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 15 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 76859-40-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN β -Cyclodextrin, 3A-(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23
,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane, β -cyclodextrin deriv.
OTHER NAMES:
CN 3-O-(*p*-Tosyl)- β -cyclodextrin
CN 3-Tosyl-0- β -cyclodextrin
FS STEREOSEARCH
MF C49 H76 O37 S
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 16 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 67217-55-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN β -Cyclodextrin, 6A-(4-methylbenzenesulfonate) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23
,6.28,11.213,16.218,21.223,26.228,31]nonadecacontane, β -cyclodextrin
deriv.

OTHER NAMES:

CN β -Cyclodextrin 6-monotosylate

CN β -Cyclodextrin 6-tosylate

CN 6-O-(p-Tolylsulfonyl)cyclomaltoheptaose

CN 6-O-(p-Tosyl)- β -cyclodextrin

CN 6-O-Tosyl- β -cyclodextrin

CN Mono(6-O-p-tolylsulfonyl)- β -cyclodextrin

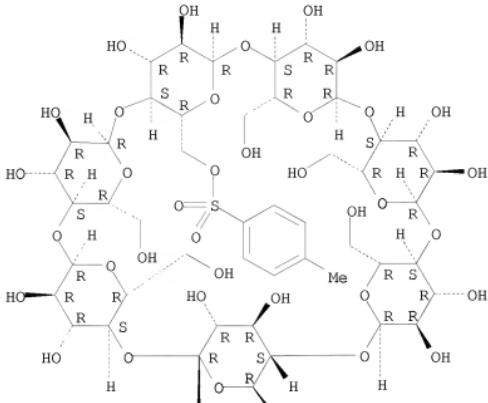
CN Mono-6-(p-tolylsulfonyl)- β -cyclodextrin

CN Mono-6-O-tosyl- β -cyclodextrin

CN Mono(6-O-(*p*-toluenesulfonyl) β -cyclodextrin
 FS STEREOSEARCH
 DR 854929-93-4, 864380-56-3, 150507-43-0
 MF C49 H76 O37 S
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, IFICDB, IFIPAT,
 IFIUDB, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

430 REFERENCES IN FILE CA (1907 TO DATE)
 22 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 433 REFERENCES IN FILE CAPLUS (1907 TO DATE)

LS ANSWER 17 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 32860-56-3 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN α -Cyclodextrin, 6A-(4-methylbenzenesulfonate) (CA INDEX
 NAME)
 OTHER CA INDEX NAMES:

CN *α -Cyclodextrin, 6-p-toluenesulfonate (8CI)*
CN *2, 4, 7, 9, 12, 14, 17, 19, 22, 24, 27, 29-Dodecaoxaheptacyclo[26.2.2.23, 6.28, 11
.213, 16.218, 21.223, 26]dotetracontane, α -cyclodextrin deriv.*

OTHER NAMES:

CN *6-O-Tosyl- α -cyclodextrin*

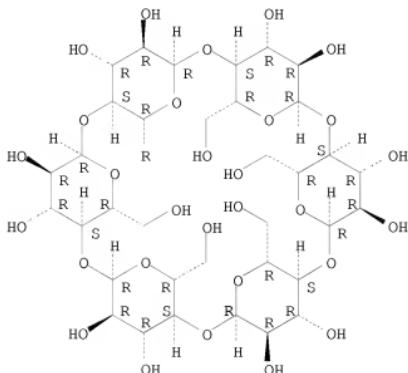
FS STEREOSEARCH

MF C43 H66 O32 S

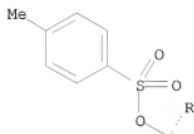
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

36 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

37 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 18 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

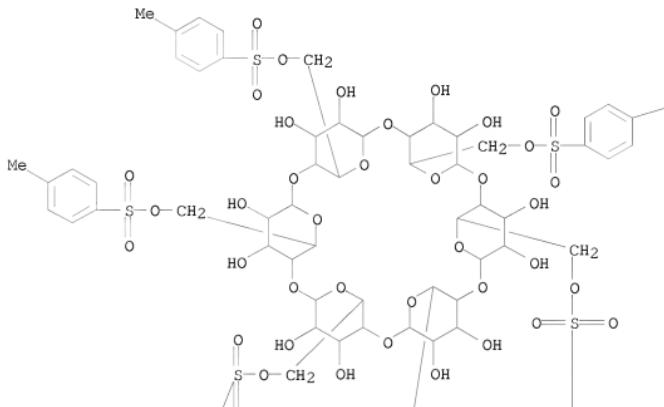
RN 21884-25-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN *α -Cyclodextrin, 6A, 6B, 6C, 6D, 6E, 6F-hexakis(4-*

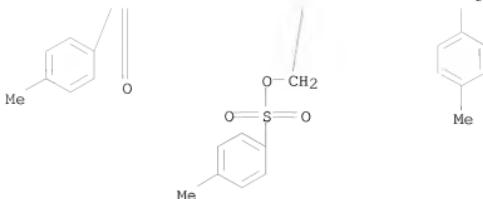
methylbenzenesulfonate) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN α -Cyclodextrin, 6,6',6'',6''',6''''',6'''''-hexa-p-toluenesulfonate (8CI)
 CN 2,4,7,9,12,14,17,19,22,24,27,29-Dodecaoxaheptacyclo[26.2.2.23,6.28,11.213,16.218,21.223,26]dotetracontane, α -cyclodextrin deriv.
 OTHER NAMES:
 CN α -Cyclodextrin 6-tosylate
 FS STEREOSEARCH
 DR 32201-11-9
 MF C78 H96 O42 S6
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
 (*File contains numerically searchable property data)

PAGE 1-A



PAGE 1-B

— Me



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e methylimidazole

E1 5 METHYLLIMIDAZOLE/BI
E2 24 METHYLLIMIDAZOLATO/BI
E3 1233 --> METHYLLIMIDAZOLE/BI
E4 2 METHYLLIMIDAZOLEACETIC/BI
E5 1 METHYLLIMIDAZOLECELLUL/BI
E6 1 METHYLLIMIDAZOLECELLULOSE/BI
E7 1 METHYLLIMIDAZOLEPROPION/BI
E8 1 METHYLLIMIDAZOLEPROPIONAMIDE/BI
E9 1 METHYLLIMIDAZOLETHIOL/BI
E10 2 METHYLLIMIDAZOLI/BI
E11 1 METHYLLIMIDAZOLID/BI
E12 2 METHYLLIMIDAZOLIDI/BI

=> e methylimidazole/cn

E1 1 METHYLLILKUMBIN A/CN
E2 1 METHYLLILKUMBIN B/CN
E3 1 --> METHYLLIMIDAZOLE/CN
E4 1 METHYLLIMIDAZOLE HYDROCHLORIDE/CN
E5 1 METHYLLIMIDAZOLIUM PICRATE/CN
E6 1 METHYLIMIDE/CN
E7 1 METHYLLIMIDOBIS (THIOPHOSPHORYL) CHLORIDE/CN
E8 1 METHYLLIMIDODIACETIC ACID/CN
E9 1 METHYLLIMIDODIPHOSPHORUS TETRACHLORIDE/CN
E10 1 METHYLLIMIDODIPHOSPHORYL CHLORIDE/CN
E11 1 METHYLLIMIDOGEN/CN
E12 1 METHYLLIMIDOSULFUROUS DIFLUORIDE/CN

=> s e3

L6 1 METHYLLIMIDAZOLE/CN

=> d 16 scan

L6 1 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 1H-Imidazole, methyl-
MF C4 H6 N2
CI IDS, COM



D1-Me

ALL ANSWERS HAVE BEEN SCANNED

=> d 16

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 30346-87-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Imidazole, methyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Imidazole, methyl- (7CI, 8CI)
OTHER NAMES:
CN Methylimidazole
MF C4 H6 N2
CI IDS, COM
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS,
CASREACT, CBNB, CIN, EMBASE, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL,
USPATOLD



D1-Me

184 REFERENCES IN FILE CA (1907 TO DATE)
17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
186 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

| => b caplus | SINCE FILE | TOTAL |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 54.83 | 83.16 |

FILE 'CAPLUS' ENTERED AT 17:09:43 ON 20 AUG 2008
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 20 Aug 2008 VOL 149 ISS 8
FILE LAST UPDATED: 19 Aug 2008 (20080819/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> d his

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2 S L1

L3 FILE 'CAPLUS' ENTERED AT 17:07:04 ON 20 AUG 2008
8 S L1
L4 0 S L1 AND PY<=2003

L5 FILE 'REGISTRY' ENTERED AT 17:07:53 ON 20 AUG 2008
18 S CYCLODEXTRIN?/CNS AND TOSYL?/CNS
E METHYLIMIDAZOLE
E METHYLIMIDAZOLE/CN
L6 1 S E3

FILE 'CAPLUS' ENTERED AT 17:09:43 ON 20 AUG 2008

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548 L5
186 L6
L7 0 L5 AND L6

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548 L5
192007 ?IMIDAZO?
L8 27 L5 AND ?IMIDAZO?

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24009471 PY<=2003
L9 0 L7 AND PY<=2003

=> s 18 and py<=2003
24009471 PY<=2003

L10

15 L8 AND PY<=2003

=> d l10 l-15 ibib abs

L10 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:752349 CAPLUS
 DOCUMENT NUMBER: 137:287703
 TITLE: Cyclodextrin composition for preparing substances having nano-pores
 INVENTOR(S): Yim, Jin Heong; Mah, Sang Kook; Lyu, Yi Yeol; Nah, Eun Ju
 PATENT ASSIGNEE(S): Samsung Electronics Co., Ltd., S. Korea
 SOURCE: Eur. Pat. Appl., 22 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|--------------|
| EP 1245628 | A1 | 20021002 | EP 2001-309616 | 20011114 <-- |
| R: AT, BE, CH,
DE, DK, ES, FR,
GB, GR, IT, LI,
LV, FI, RO, MK,
CY, AL, TR
IE, SI, LT, | | | | |
| JP 2002293989 | A | 20021009 | JP 2002-16754 | 20020125 <-- |
| JP 4090244 | B2 | 20080528 | | |
| KR 2002075720 | A | 20021005 | KR 2002-14259 | 20020316 <-- |
| | | | KR 2001-15883 | A 20010327 |

PRIORITY APPLN. INFO.: MARPAT 137:287703

AB The present invention provides a composition for preparing substances having nano-pores, said composition comprising cyclodextrin derivative as porogens, thermostable organic or inorg. matrix precursor, and solvent for dissolving said two solid components. There is also provided a low-k interlayer insulating film having evenly distributed nano-pores with a diameter less than 50 Å, which is required for semiconductor devices. Thus, hydrosilylating 2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane with trichlorosilane, followed by reacting the resulting derivative with MeOH gave 2,4,6,8-tetramethyl-2,4,6,8-tetra(trimethoxysilyl ethyl)cyclotetrasiloxane, which was ring-opening polymerized to give a polysiloxane (I). Mixing 12% a purified I with 10.0% heptakis(2,4,6-tri-O-methyl)- β -cyclodextrin in MIBK, spin coating the resulting mixture on a boron-doped Si wafer, baking at 150° and at 250° for 1 min each and calcining at 420° for 60 min gave a dielec. film with thickness 5909 Å and dielec. constant 2.25.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:537097 CAPLUS
 DOCUMENT NUMBER: 137:295212
 TITLE: Synthesis of new carnosine derivatives of β -cyclodextrin and their hydroxyl radical scavenger ability
 AUTHOR(S): La Mendola, Diego; Sortino, Salvatore; Vecchio, Graziella; Rizzarelli, Enrico
 CORPORATE SOURCE: Dipartimento di Scienze Chimiche, Universita di Catania, Catania, I-95125, Italy
 SOURCE: Helvetica Chimica Acta (2002), 85(6), 1633-1643

CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER: Verlag Helvetica Chimica Acta
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:295212

AB Several *in vitro* and *in vivo* studies have suggested that carnosine can act as a scavenger of reactive oxygen species and intracellular proton buffer. On the other hand, carnosinase is a specific peptidase able to destroy the biol. active dipeptide. To overcome this constraint, β -cyclodextrin (β -CD) was functionalized with carnosine to give the following new compds.: 6A-[(3-[(1S)-1-carboxy-2-(1H-imidazol-4-yl)ethyl]amino)-3-oxopropyl]amino]-6A-deoxy- β -cyclodextrin (1), 6A-[(β -alanyl-L-histidyl)amino]-6A-deoxy- β -cyclodextrin (2), and (2A_S,3A_R)-3A-[(3-[(1S)-1-carboxy-2-(1H-imidazol-4-yl)ethyl]amino)-3-oxopropyl]amino]-3A-deoxy- β -cyclodextrin (3). Pulse-radiolysis investigation showed that the β -CD derivs. 1-3 are excellent scavengers of OH[·] radicals. Their activity is not only due to the formation of the stable imidazole-centered radical, but also to the scavenger ability of the glucose moieties of the macrocycle. This effect is independent of the disposition of the imidazole ring. In fact, the quenching constant values are similar for the three compds.

REFERENCE COUNT: 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:154355 CAPLUS
DOCUMENT NUMBER: 136:369923
TITLE: 6A-O-p-toluenesulfonyl- β -cyclodextrin
AUTHOR(S): Byun, Hoe-Sup; Zhong, Ning; Bittman, Robert
CORPORATE SOURCE: USA
SOURCE: Organic Syntheses (2000), 77, 225-230
CODEN: ORSYAT; ISSN: 0078-6209
PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:369923

AB 6A-O-p-toluenesulfonyl- β -cyclodextrin was prepared in one step by regioselective tosylation of β -cyclodextrin with 1-(p-toluenesulfonyl)imidazole in 90 yield.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:477262 CAPLUS
DOCUMENT NUMBER: 131:213872
TITLE: Syntheses of imidazolium-bridged cyclodextrin dimers and their catalytic properties in the hydrolytic cleavage of p-nitrophenyl alkanoates
AUTHOR(S): Luo, Mei-Ming; Xie, Ru-Gang; Yuan, De-Qi; Lu, Wei; Xia, Ping-Fang; Zhao, Hua-Ming
CORPORATE SOURCE: Department of Chemistry, Sichuan University, Chengdu, 610064, Peop. Rep. China
SOURCE: Chinese Journal of Chemistry (1999), 17(4), 384-390
CODEN: CJOCEV; ISSN: 1001-604X
PUBLISHER: Science Press
DOCUMENT TYPE: Journal
LANGUAGE: English



AB Two *imidazolium*-bridged cyclodextrin (CD) dimers I (R = β -cyclodextrin-6-yl; Z = p- and m-C₆H₄) were prepared by reacting 6-deoxy-6-N-*imidazolyl*- β -CD (II) with p- and m-(BrCH₂)C₆H₄, resp. The catalytic properties of I and II in the hydrolytic cleavage of p-O2NC₆H4O2CrI (III; R₁ = Me, Pr, n-C₅H₁₁, n-C₇H₁₅) were examined. CD dimers showed middling rate enhancements around neutrality. Catalytic rate consts. (k_c) in the presence of I did not vary much with R₁. In contrast, dissociation consts. (K_d) and selectivity factors (k_c/K_d) for long-chain esters were much smaller and significantly larger than those for short-chain ones resp., indicating that I have good dimensional-recognition ability and substrate selectivity in the hydrolytic cleavage of III. Their kinetic consequences are briefly interpreted.

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1999:27838 CAPLUS
 DOCUMENT NUMBER: 130:97110
 TITLE: Activated mono-, di-, oligo- and polysaccharides, reaction products thereof, their preparation and uses
 INVENTOR(S): Robyt, John F.; Mukerjea, Rupendra
 PATENT ASSIGNEE(S): Iowa State University Research Foundation, Inc., USA
 SOURCE: PCT Int. Appl., 53 pp.
 CODEN: PIXDZ2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|--------------|
| WO 9858940 | A1 | 19981230 | WO 1998-US12767 | 19980619 <-- |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW | | | | |
| RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| US 5900478 | A | 19990504 | US 1997-880152 | 19970620 <-- |
| US 6031085 | A | 20000229 | US 1998-58888 | 19980413 <-- |
| US 6096882 | A | 20000801 | US 1998-58887 | 19980413 <-- |
| AU 9880742 | A | 19990104 | AU 1998-80742 | 19980619 <-- |
| PRIORITY APPLN. INFO.: | | | US 1997-880152 | A 19970620 |
| | | | WO 1998-US12767 | W 19980619 |

AB Reaction at the interface of an organic solution containing an acidic reactant and

an aqueous alkaline solution containing nonreducing carbohydrates such as sucrose, sugar alcs., cyclodextrins, and polysaccharides imparts a specificity to the reaction for one or more of the primary alc. groups of the carbohydrate reactant. The resulting activated, nonreducing carbohydrate intermediate can then be converted to a series of substantially pure, low mol. weight reaction products, including a sucrose trimer and dianhydrosucrose, and to a series of substantially pure, higher mol. weight reaction products, including 6-O-sucro cyclodextrins and poly-6-O-sucro amylose. Thus, 12.3 g tosyl chloride in toluene was added over 30 min at 22° to an alkaline solution containing 10 g sucrose to give 6,6'-di-O-tosyl sucrose, which (2 g) in

MeOH containing 350 mg sodium methoxide was refluxed 24 h to give crystalline 3,6;3',6'-dianhydrosucrose.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:316602 CAPLUS

DOCUMENT NUMBER: 129:54503

ORIGINAL REFERENCE NO.: 129:11365a,11368a

TITLE: Efficient regioselective synthesis of mono-2-O-sulfonyl-cyclodextrins by the combination of sulfonyl imidazole and molecular sieves

AUTHOR(S): Teranishi, Katsunori; Watanabe, Kayo; Hisamatsu, Makoto; Yamada, Tetsuya

CORPORATE SOURCE: Faculty of Bioresources, Mei University, Tsu, Mie, 514, Japan

SOURCE: Journal of Carbohydrate Chemistry (1998), 17(3), 489-494

CODEN: JCACDM; ISSN: 0732-8303

PUBLISHER: Marcel Dekker, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 129:54503

AB Regioselective sulfonylation of cyclodextrins with sulfonyl imidazole and mol. sieves is reported.

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:706280 CAPLUS

DOCUMENT NUMBER: 127:359006

ORIGINAL REFERENCE NO.: 127:70287a,70290a

TITLE: Synthesis and properties of phenylenebisbenzimidazole capped β -cyclodextrins

AUTHOR(S): Yuan, De-Qi; Koga, Kazutaka; Fujita, Kahee; Yamaguchi, Masatoshi

CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Nagasaki University, Nagasaki, 852, Japan

SOURCE: Tetrahedron Letters (1997), 38(43), 7593-7596

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Novel capped β -cyclodextrins were synthesized by reaction of 6A,6C (or 6A,6D)-bis-O-tosyl substituted β -cyclodextrins with

o-phenylenediamine and subsequent cyclocondensation with iso-phthalaldehyde 4. Their highly resolved NMR spectra and binding property are also described.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:536959 CAPLUS

DOCUMENT NUMBER: 127:173486

ORIGINAL REFERENCE NO.: 127:33525a,33528a

TITLE: Polymeric fluorophores enhanced by moieties providing a hydrophobic and conformationally restrictive microenvironment

INVENTOR(S): Bieniarz, Christopher; Huff, Jeffrey B.; Cornwell, Michael J.; Tata Venkata, Seshagiri R.

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: PCT Int. Appl., 111 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|--------------|
| WO 9728447 | A1 | 19970807 | WO 1997-US1429 | 19970130 <-- |
| W: CA, JP | | | | |
| RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| US 5994143 | A | 19991130 | US 1996-595092 | 19960201 <-- |
| CA 2244768 | A1 | 19970807 | CA 1997-2244768 | 19970130 <-- |
| CA 2244768 | C | 20060418 | | |
| EP 1019722 | A1 | 20000719 | EP 1997-904060 | 19970130 <-- |
| EP 1019722 | B1 | 20030409 | | |
| R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL | | | | |
| JP 2000509412 | T | 20000725 | JP 1997-527793 | 19970130 <-- |
| AT 237138 | T | 20030415 | AT 1997-904060 | 19970130 <-- |
| ES 2197332 | T3 | 20040101 | ES 1997-904060 | 19970130 |
| PRIORITY APPLN. INFO.: | | | US 1996-595092 | A 19960201 |
| | | | WO 1997-US1429 | W 19970130 |

OTHER SOURCE(S): MARPAT 127:173486

AB Fluorescent conjugates are disclosed that are suitable for use in flow cytometry and other biol. applications. The fluorescent conjugates comprise an antibody having a polymeric dye bound thereto. The polymeric dye is preferably enhanced by a hydrophobic and conformationally restrictive moiety either bound thereto or in close association therewith. The hydrophobic and conformationally restrictive moiety is preferably derived from a cyclodextrin. The polymeric dye comprises a polymeric entity having signal-generating groups, such as aminostyryl pyridinium dye residues attached thereto. The fluorescent conjugates exhibit exceptional stability characteristics and avoid many of the problems of energy transfer, bio-conjugability, and solubility

L10 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:545478 CAPLUS

DOCUMENT NUMBER: 123:144423

ORIGINAL REFERENCE NO.: 123:25749a,25752a

TITLE: Design and synthesis of cyclodextrin dimers with two imidazolium residues as catalytic site

AUTHOR(S): Guo, Sheng Jin; Luo, Mei Ming; Gu, Xiao Rong; Xie, Ru

CORPORATE SOURCE: Gang; Zhao, Hua Ming
 Dep. Chem., Sichuan Univ., Chengdu, 610064, Peop. Rep.
 China
 SOURCE: Chinese Chemical Letters (1995), 6(4), 293-6
 CODEN: CCLEE7
 PUBLISHER: Chinese Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Reaction of 6-deoxy-6-(N-*imidazolyl*)- β -cyclodextrin with
 α,α' -dibromoxylene afforded cyclodextrin dimer with two
imidazolium residues as catalytic site and two cyclodextrin
cavities as binding site.

L10 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1990:499735 CAPLUS
 DOCUMENT NUMBER: 113:99735
 ORIGINAL REFERENCE NO.: 113:16849a,16852a
 TITLE: Manufacture of cyclodextrin derivatives
 INVENTOR(S): Iwata, Kazunori; Moriguchi, Soyao
 PATENT ASSIGNEE(S): Showa Denko K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|--------------------------------|
| JP 01319502 | A | 19891225 | JP 1988-153157 | 19880621 <--
JP 1988-153157 |

PRIORITY APPLN. INFO.:
 AB Cyclodextrins bearing NHC(COOH)HR groups [R = H, (hydroxy)alkyl, amino,
 COOH, carbamoyl, SH, MeS or its guanidino derivs., (p-hydroxy)benzyl,
 3-indolymethyl, 4-*imidazolylmethyl*] on C-2 or C-3, useful in
isolating optically active substances, are prepared by sulfonylating
cyclodextrins, displacing the sulfonate groups with amino acids or NaI,
and carrying out further reactions. Thus, β -cyclodextrin was
sulfonated with m-nitrophenyl p-toluenesulfonate and the ester was treated
with L-phenylalanine to give mono[(S)-[1-carboxy-2-phenylethyl]amino]-2-
deoxy]- β -cyclodextrin.

L10 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1990:231794 CAPLUS
 DOCUMENT NUMBER: 112:231794
 ORIGINAL REFERENCE NO.: 112:38995a,38998a
 TITLE: Artificial enzymes: synthesis of *imidazole*
substituted at C-2 of β -cyclodextrin as an
efficient enzyme model of chymotrypsin
 AUTHOR(S): Rao, K. Rama; Srinivasan, T. N.; Bhanumathi, N.;
Sattur, P. B.
 CORPORATE SOURCE: Indian Inst. Chem. Technol., Hyderabad, 500 007, India
 SOURCE: Journal of the Chemical Society, Chemical
Communications (1990), (1), 10-11
 CODEN: JCCCAT; ISSN: 0022-4936
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 112:231794
 AB *Imidazole* has been attached at C(2) on the more open face of
 β -cyclodextrin to mimic the enzyme chymotrypsin; this chemical model is

shown to be catalytically far superior to that with an imidazole on the primary side [C(6)] of cyclodextrin.

L10 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1989:529801 CAPLUS
DOCUMENT NUMBER: 111:129801
ORIGINAL REFERENCE NO.: 111:21642h,21643a
TITLE: Imidazole derivatives of cyclodextrins as chymotrypsin analogs
INVENTOR(S): Bender, Myron L.; D'Souza, Valerian T.
PATENT ASSIGNEE(S): Northwestern University, USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|--------------|
| US 4777250 | A | 19881011 | US 1986-876278 | 19860619 <-- |
| | | | US 1986-876278 | 19860619 |

PRIORITY APPLN. INFO.: OTHER SOURCE(S): CASREACT 111:129801; MARPAT 111:129801
GI For diagram(s), see printed CA Issue.
AB Imidazole derivs. of cyclodextrins (I; D = α, β, γ -cyclodextrin; P = X, $(CH_2)_nX$ where n = 0-2, X = S, NH, O; Q = substituted Ph with o-carboxyl group, $(CH_2)_n$ where n = 0-3; R = H, Me, Et) function as chymotrypsin analogs. The analog 3A-S-[(2-(2-carboxyphenyl)-5-methyl-1H-imidazol-4-yl)methyl]-3A-thio- β -cyclodextrin was synthesized. At its optimum pH of 10.7, its kcat-t, Km, and kca-t/Km were 2.8 + 102, 13.3 + 105, and 210, resp. The corresponding values for chymotrypsin (at pH 8.0) were 1.1 + 102, 4.0 + 105, and 275, resp.

L10 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1988:56475 CAPLUS
DOCUMENT NUMBER: 108:56475
ORIGINAL REFERENCE NO.: 108:9449a,9452a
TITLE: Catalytic activity of β -cyclodextrin-histamine
AUTHOR(S): Ikeda, Tsukasa; Kojin, Ryoichi; Yoon, Chul Joong;
Ikeda, Hiroshi; Iijima, Masao; Toda, Fujio
CORPORATE SOURCE: Fac. Eng., Tokyo Inst. Technol., Tokyo, 152, Japan
SOURCE: Journal of Inclusion Phenomena (1987), 5(1), 93-8
CODEN: JOIPDF; ISSN: 0167-7861
DOCUMENT TYPE: Journal
LANGUAGE: English
AB β -Cyclodextrin (β -CD) was modified by a histamine group to make a model of α -chymotrypsin. Enzymic turnover reaction was realized with β -CD-histamine at around neutral pH value. Compared with amino- β -CD, the catalytic activity of β -CD-histamine was caused by the imidazole group. Using several substrates in the hydrolytic reactions, it was shown that β -CD-histamine has a structural selectivity for substrates which are structurally different to each other.

L10 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1985:484091 CAPLUS
DOCUMENT NUMBER: 103:84091

ORIGINAL REFERENCE NO.: 103:13469a,13472a
 TITLE: Synthesis and evaluation of a miniature organic model
 of chymotrypsin
 AUTHOR(S): D'Souza, Valerian T.; Hanabusa, K.; O'Leary, T.;
 Gadwood, Robert C.; Bender, Myron L.
 CORPORATE SOURCE: Dep. Chem., Northwestern Univ., Evanston, IL, 60201,
 USA
 SOURCE: Biochemical and Biophysical Research Communications (1985), 129(3), 727-32
 CODEN: BBRCA9; ISSN: 0006-291X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB An artificial chymotrypsin, with all the features of the real chymotrypsin, namely a binding site (from cyclodextrin) attached to a catalytic site containing an imidazolyl group, a carboxylate group, and a hydroxyl group, was synthesized. This artificial chymotrypsin has a mol. weight of only 1365, whereas the real enzyme has a mol. weight of 24,800. However, from preliminary measurements, both the real and artificial enzymes have approx. the same catalytic activity (both rate and binding consts.). .

L10 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1970:476396 CAPLUS
 DOCUMENT NUMBER: 73:76396
 ORIGINAL REFERENCE NO.: 73:12487a,12490a
 TITLE: Inclusion compounds. XXII. Cyclodextrin-
imidazole compounds
 AUTHOR(S): Cramer, Friedrich; Mackensen, Georg
 CORPORATE SOURCE: Abt. Chem., Max-Planck-Inst. Exptl. Med., Goettingen,
 Fed. Rep. Ger.
 SOURCE: Chemische Berichte (1970), 103(7), 2138-47
 CODEN: CHBEAM; ISSN: 0009-2940
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 AB Non-stoichiometric amorphous title compds. (I) were prepared by reaction of a cyclodextrin (II) [$\text{6-O-}(\text{RSO}_2)$ (-substituted) derivs. of α -or- β -II (where R = Me, p-MeC₆H₄, or Ph and n = 6 or 7), or the 6-iodo-6-deoxy or pertrifluoroacetyl derivative of β -II] with 4(5)-(R1 -substituted)-imidazoles (III) (where R1 = H, CH₂NH₂, CH₂Cl, or CH₂CH₂NH₂). The catalytic effect of the following I on the hydrolysis rate of AcOC₆H₄NO₂-p at pH 7.5 was determined [II component, III derivative or component where X = 4(5)-imidazolyl, and rate constant (105 sec⁻¹) given]: -, -, 1.2; α -II, -, 3.2; β -II, -, 5.9; 6-amino-6-deoxy derivative of α -II, -, 122; 6-amino-6-deoxy derivative of β -II, i, 245; β -II, (CH₂CH₂X)₂, 384; β -II, (CH₂NHCH₂X)₃, 36.5; β -II, (CH₂NHCH₂CH₂X)₃, 61.5; β -II, (CH₂NHCH₂CH₂X)₄, 128; β -II, (CH₂X)₄, 54; β -II, (CH₂X)₆, 84.5; α -II, (CH₂CH₂X)₃, 25; α -II, (CH₂NHCH₂CH₂X)₂, 44.7; and α -II, (CH₂NHCH₂CH₂X)₃, 76.8. Thus, a model reaction for the serine OH group cooperation with a histidine imidazolyl group in the active site of chymotrypsin was obtained.

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY

SESSION

51.45

134.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

CA SUBSCRIBER PRICE

ENTRY SESSION
-12.00 -12.00

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 17:11:14 ON 20 AUG 2008